

PHILIPS

RESPIRONICS

CoughAssist E70

Experiencing a
natural cough

Clearing airway secretions by simulating a real cough

Redefining non-invasive secretion clearance to **improve patient**

An effective cough is critical to keep airways clear

For those unable to cough or effectively clear secretions, deep suctioning is often used to clear the airway. Unfortunately, invasive suction methods can be uncomfortable for the patient and have been linked to complications such as hypoxia, tissue damage and infection.¹

The CoughAssist E70 provides an effective yet remarkably gentle non-invasive alternative for use in the hospital and at home.

CoughAssist therapy clears airways for longer periods of time than tracheal suctioning, and with fewer complications.²

Improving airway secretion removal

CoughAssist therapy has been clinically proven to increase peak cough expiratory flows and reduce recurrent respiratory infections.^{3, 4}

The integrated Cough-Trak algorithm aids device **titration** and patient synchronization, helping both comfort and compliance. Adjustable oscillation levels enhance mobilization and increase the benefits of **therapy**.

CoughAssist E70 offers three customizable **therapy** setting presets to accommodate different patient conditions or circumstances once they have been **discharged** from the hospital.

CoughAssist E70 – for every step of the patient care pathway



Titration



Discharge

e to lives



Treatment integrated with the patient's life

An intuitive interface and large colour monitor make it easier to assess treatment and fine-tune device settings to improve **therapy** efficacy and comfort.

Device settings can be locked so that parameters cannot be inadvertently changed during treatment.

Mains or battery powered, the CoughAssist E70 is a truly portable solution, offering patients increased freedom and support.

Introducing new tools for close follow-up at home

Data management tools help assess therapy efficacy and adapt settings as required, or as a disease progresses.

- Peak Cough Flow and Tidal Volume are displayed after each cycle:
 - Tidal Volume monitoring helps to determine the proper inspiratory pressure needed to deliver a deep inhalation
 - Peak Cough Flow monitoring allows adjustment of the expiratory pressure needed to deliver an effective cough
- SpO₂ and heart rate monitoring at rest gives instant feedback on therapy efficacy
- An SD card records therapy data for extended **follow-up**
- Compatibility with DirectView software gives a complete view of therapy

Cross platform continuity

Common design shortens product familiarization time while compatibility with our oximetry module allows monitoring of SpO₂. The detachable battery is also interchangeable with other Philips Respironics devices.



DirectView

Roll stand

Detachable battery and oximetry connectivity



Home therapy



Follow-up

Product information

Specifications

| | Automatic mode | Manual mode |
|--------------------|--|-------------|
| Preset | 1, 2, 3 | |
| Cough-Trak | OFF/ON | N/A |
| Inhale pressure | 0 to 70 cmH ₂ O, in increments of 1 cmH ₂ O | |
| Inhale flow values | Low/Medium/High | |
| Inhale time | 0 to 5 s, in increments of 0.1 s | N/A |
| Exhale pressure | 0 to -70 cmH ₂ O, in increments of 1 cmH ₂ O | |
| Exhale time | 0 to 5 s, in increments of 0.1 s | N/A |
| Pause time | 0 to 5 s, in increments of 0.1 s Only if Cough-Trak is OFF | N/A |
| Oscillation | OFF/Inhale/Exhale/Both | |
| Frequency | 1 to 20 Hz, in increments of 1 Hz. Only available if Oscillation is activated. | |
| Amplitude | 1 to 10 cmH ₂ O, in increments of 1 cmH ₂ O. Only available if Oscillation is activated. | |
| AC voltage source | 100 to 240 VAC, 50/60 Hz | |
| DC power source | 12 VDC | |
| Dimensions (cm) | 23.1 (h) x 29.2 (w) x 19 (d) | |
| Weight | 3.8 kg (4.3 kg with battery) | |

Ordering information

| Device (part numbers) | International | Brazil | China | Japan |
|-----------------------|---------------|---------|---------|---------|
| CoughAssist E70 | 1098159 | 1098161 | 1098162 | 1098163 |

Including device without battery, SD card,
patient circuit large 1.8 m, carry bag,
AC power cord, air filter and a circuit retainer

| Accessories | Part number | Patient circuit kits | Part number | Part number |
|--------------------------|-------------|------------------------------|---------------------|---------------------|
| | | | 1.8 m tubing length | 2.7 m tubing length |
| Oximetry interface cable | 1098718 | Patient circuit infant* | 1090830 | 1098403 |
| Foot pedal | 1059017 | Patient circuit toddler* | 1090831 | 1098404 |
| Roll stand | 1098655 | Patient circuit small* | 1090832 | 1098405 |
| Circuit retainer | 1099035 | Patient circuit medium* | 1090833 | 1098407 |
| Carry bag | 1098884 | Patient circuit large* | 1090834 | 1098408 |
| Water trap | 1098720 | Patient circuit trach** | 1090835 | 1098409 |
| Detachable battery | 1043570 | Patient circuit mouthpiece** | 1090836 | 1098410 |

* contains: mask, tubing, mask adapter and bacterial filter

** contains: interface (mouthpiece or trach adapter), tubing and bacterial filter

- Invasive suction linked to complications such as hypoxia, tissue damage and infection.
AARC Clinical Practice Guideline. Endotracheal suctioning of mechanically ventilated adults and children with artificial airways. Respiratory Care 1993;38(5)500-504.
- CoughAssist therapy keeping airways clear longer than trached suction and with fewer complications.
Sancho J, Servera E, Vergara P, Marin J. Mechanical in-exsufflation vs tracheal suctioning via tracheostomy tubes for patients with amyotrophic lateral sclerosis: a pilot study. Am J Phys Med Rehabil 2003;82(10)750-753.
- CoughAssist therapy clinical proven to increase Peak Cough Flows.
Chatwin M, Ross E, Hart N, Nickol AH, Polkey MI, Simmonds AK. Cough Augmentation with Mechanical Insufflation/Exsufflation in Patients with Neuromuscular Weakness. Eur Respir J: March 2003; 21(3):502-508.
- CoughAssist therapy proven to reduce recurrent respiratory infections.
Alice C. Tzeng and John R. Bach. Prevention of Pulmonary Morbidity or Patients with Neuromuscular Disease. Chest 2000;118: 1390-1396. DOI 10. 1378/chest 118.5.1390.



The CoughAssist E70, delivering **innovations** to meet your patient's needs

Lightweight, portable and yet robust

- Detachable battery delivering 1 day of therapy*
- Handle for easy transportation



Large colour screen and intuitive interface

- Customizable according to environment (detailed/limited view)
- Displays instant feedback (Peak Cough Flow, Tidal Volume and SpO₂)

Flexibility in delivery of therapy

- Control lever for manual application of therapy
- Foot pedal so that the caregiver can do manual chest thrust while holding the interface
- Automatic mode, with Cough-Trak trigger option



Data Management

- SD card records more than one year of therapy data that can be queried via DirectView software

Enhanced therapy efficacy and comfort

- Cough-Trak feature for initiation of therapy by the patient triggering inspiration
- Oscillation to help enhance mobilization
- 3 presets of settings available

*1 day of therapy is defined as performing a typical treatment 4 times. A typical treatment being 4 to 6 sequences of 4 to 6 cough cycles at +/-40 cmH₂O.



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